Training Management Plan

for the

Imagery Exploitation Support System (IESS)

Revision G

1 June 2001

Prepared by:

NIMA/ATAMI
12310 Sunrise Valley Drive
Reston, Virginia 20191-3449

Preface

This document was prepared by the NIMA/ATAMI as the Program Manager for the Imagery Exploitation Support System (IESS). Comments or requests for additional copies or information should be addressed to:

Mr. Ken Pischel
IESS Program Manager
NIMA/ATAMI
12310 Sunrise Valley Drive
Reston, VA 20191-3449

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1.1	1	001		Closed. EAC v2.0 scheduled for deployment in October 2001
8.1.8.3	29	002		Closed. No formal training associated with IESS v4.2. Training CDs sent to all sites and training posted on IESS Home Page.
8.1.8.4	29	003		Closed. No changes in IESS functionality resulted from these improvements; therefore, no formal training required.
8.1.8.5	29	004		Closed. N/A as there is no formal training planned.
8.1.8.6	29 H-1	005		Closed. Appendix H has been updated to reflect training outline posted on IESS Home Page.
8.1.10.4	30	007		Closed. No formal delta training required for current NIES sites. EAC v2.0 training class to be scheduled at developer's facility for all new EAC sites. Individual training will also occur at time of install.
8.1.10.5	30	008		Closed. Training evaluations (government evaluation prior to formal classes and student critiques after formal classes) will be used.
8.1.10.6	30 J-1	009		Closed. Appendix J updated to reflect the training outline.
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Section 1 IESS Training Management Plan (TMP)

1.0 IESS Training Management Plan (TMP)

1.1 Purpose

The purpose of this document is to provide details of the Imagery Exploitation Support System (IESS)/Enhanced Analyst Client (EAC) training program and serve as a reference for those requiring information on the program. This TMP outlines the responsibilities for defining, developing, managing, and funding a training program for IESS versions (v) 1.0/1.1 (1995/1996), v2.0 (May 1997), v3.0 (March 1998), v3.1 (October 1998), v3.2 (June 1999), v4.0 (August/September 1999), v4.1 (May/June 2000), v4.2 (January/February 2001), IESS v4.3 (February 2003), EAC v1.0 (part of the National Imagery Exploitation System (NIES) (formerly known as IDEX Replacement Program (IRP)), EAC v2.0 (October 2001), and EAC v2.1 (December 2001/January 2002). The primary goal of the plan is to insure that training needs have been adequately addressed as an integral part of this migration system's development and implementation effort.

1.2 Scope

The scope of this TMP encompasses formal schoolhouse training; developer-provided training; and On-the-Job Training (OJT). It also addresses initial, upgrade, sustainment, and new site training.

1.3 Authority

This plan is prepared in accordance with applicable Department of Defense (DoD) directives, DoD Intelligence Information System (DoDIIS) and DoDIIS Management Board (DMB) instructions, and National Imagery and Mapping Agency (NIMA) directions and guidance. They are listed in Section 2.0.

1.4 Applicability

This TMP is applicable to the IESS Program Office (NIMA/ATAMI and Air Force Research Laboratory), all IESS user units, and their parent Services and/or Commands (to include all applicable training organizations).

1.5 Revisions

To maintain currency this document will be revised on a regular basis as new information becomes available and the To Be Determined (TBD)/To Be Resolved (TBR) issues come to closure.

Section 2 References

2.0 References

a. *DoDIIS Migration Systems Instruction to DExA, PMOs, and Developers*, February 1997.

b. *DoDIIS Migration Systems Program Management Plan (PMP)*, 7 September 1994.

c. *DMB, DoD Intelligence Information System (DoDIIS) Instructions, February 1999*

d. *DIA Regulation 24-11, General Intelligence Training System*, 10 April 1995.

e. *DoD Directive 3305.2, DoD General Intelligence Training, 20 July 1984*

f. *DDCI/ASD C3I Memorandum, Intelligence Community Imagery Training Plan, 16 August 1995*

g. *NIMA, Functional Managers Guidance for the Imagery and Geospatial Community, FY2003-2007, October 2000*

h. *Intelligence Community Imagery Training Plan*, 26 April 1996.

i. *NIMA, USIGS Training Management Plan, 25 January 2000*

j. *NIMA, Integrated Training Management Plan for IDEX Replacement at USJFCOM, Version 1.8, 15 July 2000*

k. *NIMA, Integrated Training Management Plan for IDEX II Replacement at USPACOM, Version 1.0, September 2000*

l. *Imagery Exploitation Support System (IESS) Version 4.0, Concept of Operations*, 15 August 1999.

m. *IESS Concept of Operations for Softcopy Exploitation Management*, 15 January 1998.

n. *System Specification for the Imagery Exploitation Support System v1.0, Revision F, Change 1*, 20 June 1994.

o. *System Specification for the Imagery Exploitation Support System v2.0, Revision C*, 4 October 1996.

p. *System Specification for the Imagery Exploitation Support System v3.0, Revision D*, 1 March 1999.

q. *System Specification for the Imagery Exploitation Support System v4.0*, Revision A, 1 September 1999.

r. *Imagery Exploitation Support System Contract #730602-96-C-0195*.

Section 3 IESS Background

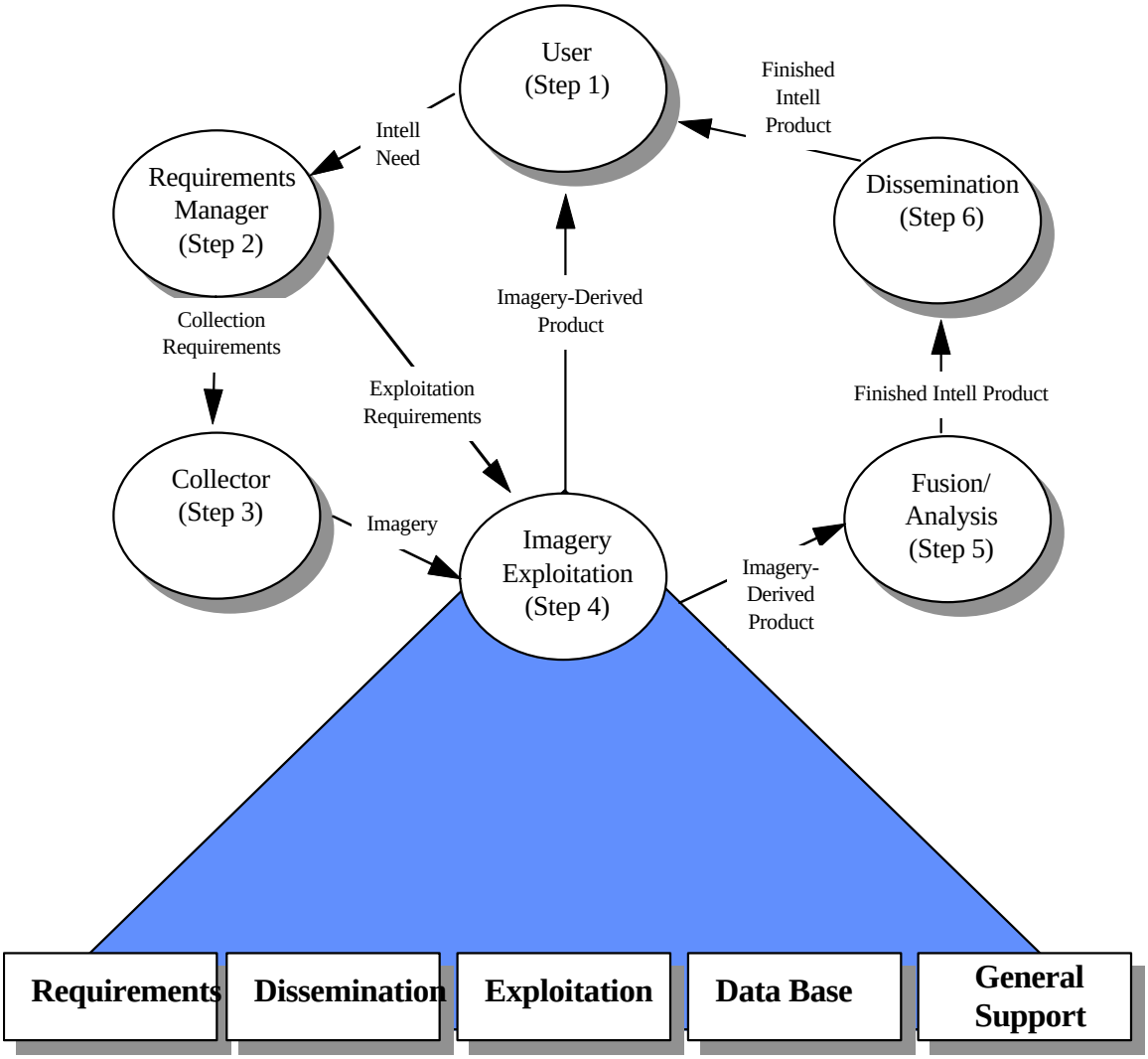
3.0 IESS Background

The following paragraphs provide background data on the Imagery Exploitation Support System.

3.1 IESS Overview

The IESS provides automated near-real-time support to the imagery intelligence (IMINT) cycle *(Figure 1)* at various DoD sites. The imagery intelligence cycle is the process by which imagery data is acquired, converted into finished intelligence, and made available to users and policy makers. In its basic form, the

Figure 1 Imagery Intelligence Cycle



cycle comprises six steps, starting with an intelligence need from a user. The intelligence need is reviewed and validated by a requirements manager and, if approved, routed to a collection operations entity as a requirement. The collection process involves the actual tasking of a collection asset and processing/distribution of an intelligence product, in this case, unexploited imagery data. The imagery exploitation effort, sometimes referred to as the imagery exploitation cycle, is concerned with the conversion of the raw intelligence data -- the imagery -- into a more usable imagery-derived intelligence product, generally an Imagery Interpretation Report (IIR). The fusion/analysis process refers to the integration, evaluation, and analysis of all available intelligence (Human Intelligence (HUMINT), Imagery Intelligence (IMINT), Measurement and Signature Intelligence (MASINT), Signals Intelligence (SIGINT), etc.) and the production of finished intelligence products. The final step, dissemination, involves the distribution of the all-source finished intelligence to the user -- whose need triggered the cycle.

The IESS concerns itself with the operation and functions inherent in step four of the imagery intelligence cycle -- the satisfaction of imagery exploitation and reporting requirements, as stated above. The IESS supports this effort by providing user tools that allow on-line interactive access to information and data bases, and providing automated capabilities to the five major functions that comprise the imagery exploitation operation within a unit -- Exploitation Requirements Management, Dissemination Management, Exploitation Management, Data Base Management, and General Support.

3.2 IESS Functional Summaries

- The Exploitation Requirements Management function is responsible for monitoring and maintaining the currency and completeness of the requirements database. It serves as a registry of all exploitation and reporting requirements data.

- The Dissemination Management function is responsible for managing the imagery selection and dissemination process within the IESS. It maintains the capability to manage imagery dissemination parameters, determine imagery coverage and priorities, and monitor receipt of imagery.

- The Exploitation Management function is responsible for the imagery exploitation and reporting process from initial tasking to final product distribution.

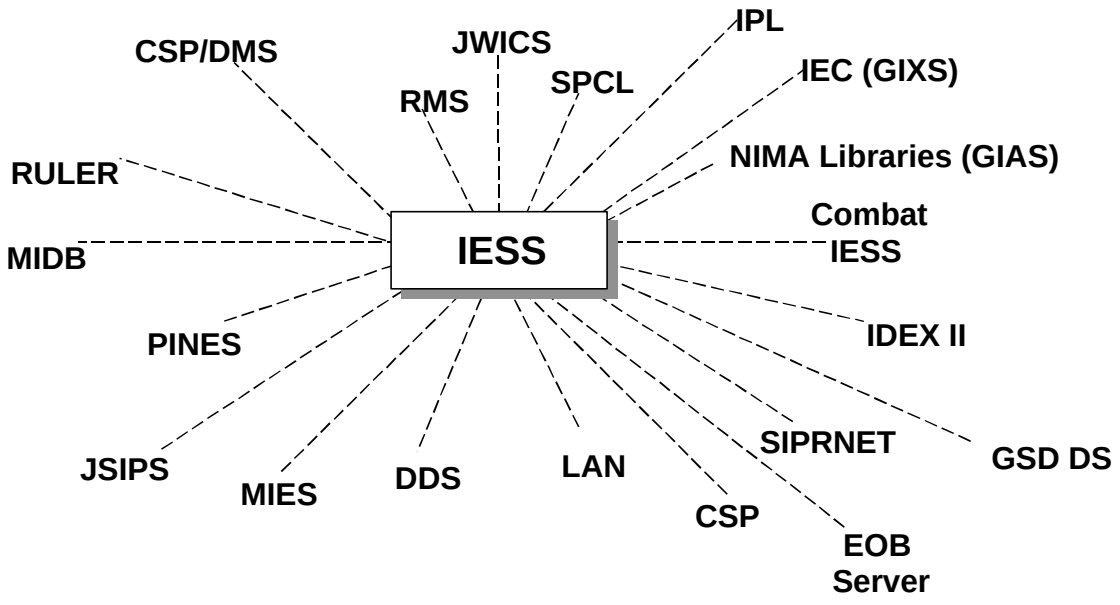
- The Data Base Management function insures the accuracy and completeness of the IESS requirements, target, and support data. It maintains the capability to load data and update the data base from the major external input sources, to track and delete outdated or invalid records from the files, and to display, correct or purge system problem records.

- General Support functions are responsible for providing the necessary system-level support functions, which cross functional areas, to include system operations, on-line Help, data conversion, statistics and message archiving, and query functions.

3.3 IESS Functional Interfaces

To functionally satisfy mission requirements the IESS will need to interface with various external entities as depicted in Figure 2. The figure is not intended to portray all of the IESS external interfaces (for further information on the IESS interfaces, consult the IESS System Specification). Essentially, there are three kinds of data upon which the imagery exploitation function is dependent: requirements data, general military intelligence (GMI) data, and imagery data. The exploitation and reporting requirements, which trigger the imagery exploitation cycle, will normally be received via the Requirements Management System (RMS), or directly from requesters. GMI data depicting target descriptions and orders-of battle, furnishing the Imagery Analyst (IA) with a standard target reference, will be available from the Modernized Integrated Data Base (MIDB). The imagery source is a critical interface node in the operation and generally applies to the Defense Dissemination System (DDS). The Image Data Exploitation II (IDEX II) legacy interface is being replaced by the United States Imagery and Geospatial Information Service (USIGS) Interoperability Profile (UIP) Geospatial and Imagery Access Services (GIAS) and Geospatial and Imagery Exploitation Services (GIXS). As part of the NIES project, IESS developed the Enhanced Analyst Client (EAC), a web-based user interface to other GIAS/GIXS-compliant segments.are beginning to migrate to the United States Imagery and Geospatial Servers (USIGS) Interoperability Profile (UIP) architecture, based on the defined Geospatial and Imagery Access Servers (GIAS) and Geospatial and Imagery Exploitation Services (GIXS).

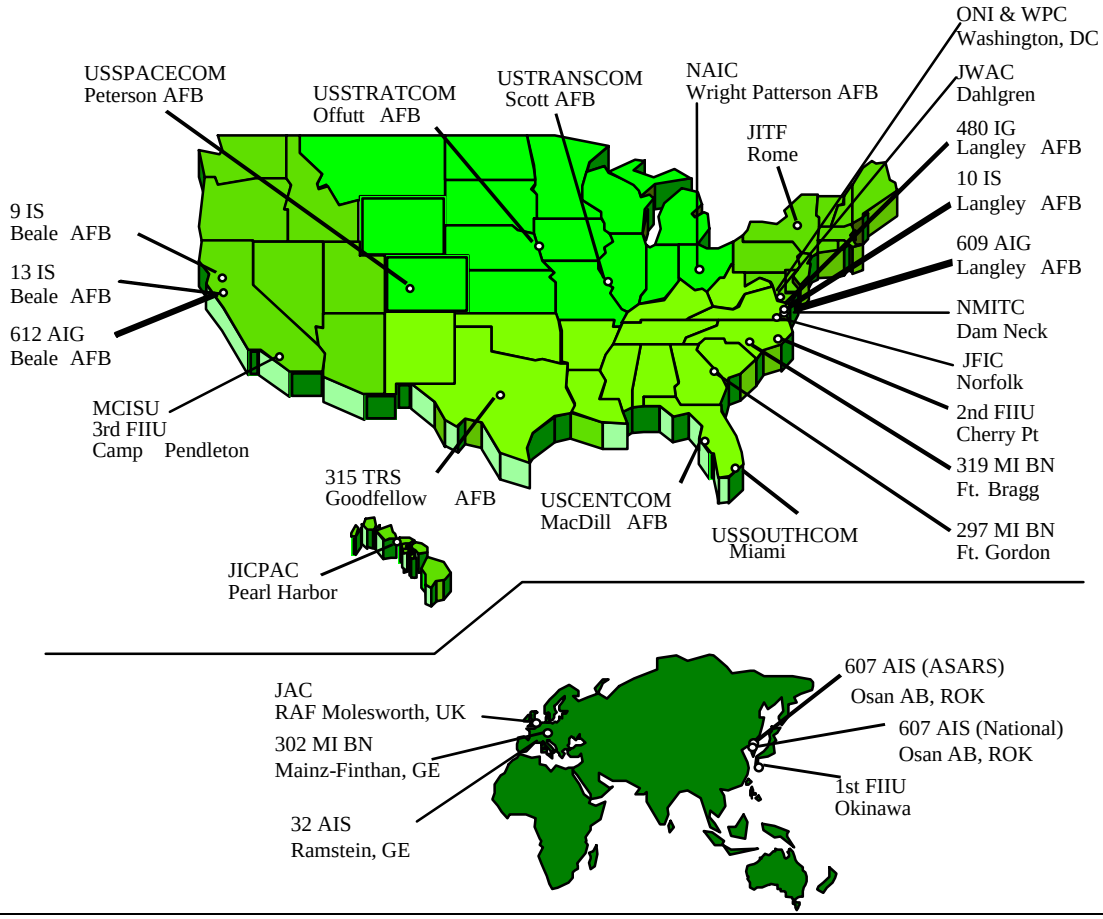
Figure 2 IESS Functional Interfaces



3.4 IESS Locations

Current plans call for the IESS to be deployed to 40 land sites plus approximately 20 naval combatants/sites. Current deployment is depicted in Figure 3.

Figure 3 IESS Locations



In addition to the above operational sites and Naval combatants, there are a number of IESS systems being used in support of research, development and testing at Rome Laboratory, Lockheed Martin, BAE, E-Systems, DBA Systems, General Dynamics, etc.

Section 4 Factors and Assumptions

4.0 Factors and Assumptions

The following factors and assumptions have an impact on the IESS training concept and methodology:

4.1 Factors

- The IESS Segment Program Management Office (PMO) has control over and total responsibility for developer-generated training. In the areas of Service schoolhouse training and site OJT programs, the PMO is responsible for providing these institutions with initial training and all course materials generated by the developer.

- IESS is involved in a number of development efforts; version (v) 1.0/1.1 released in late 1995/early 1996, v2.0 released in May 1997, v3.0 released in March 1998, v3.1 released in October 1998, v3.2 in June 1999, v4.0 in August/September 1999, v4.1 in May/June 2000, v4.2 (scheduled for release in January/February 2001), IESS v4.3 (currently in development and scheduled for February 2003 release), EAC 1.0 (deployment with the NIES), EAC v2.0 (scheduled for October 2001 deployment), and EAC v2.1 (scheduled for deployment in December 2001/January 2002). Because of the differences in the magnitude and complexity of the releases, each will require its own training methodology, as described later in this document.

- IESS is a NIMA asset with Command, Air Force, Army, Navy, and Marine Corps users.

4.2 Assumptions

- The Services will continue to pursue a robust formal IESS training program at the schoolhouses without adding training days to the curriculum.

- The use of site OJT programs to conduct IESS training will be kept to an acceptable minimum. Sites are heavily embroiled in day-to-day operational activities and should not be saddled with time consuming training functions.

- The IESS training program will be developed and implemented within the funding constraints of the development contract.

Section 5 Training/User Organizations

5.0 Training/User Organizations

The following organizations are directly involved in the development and implementation of the IESS training program.

5.1 Training Planning Organizations

5.1.1 Management Responsibility

Management of the IESS training program is a dual responsibility of NIMA/ATAMI acting as the IESS Program Manager and the Air Force Research Laboratory/Information Directorate/Information & Intelligence Exploitation Division (AFRL/IFE) as the Acquisition Program Management Office.

5.1.1.1 NIMA ATAMI

NIMA/ATAMI has the responsibility for defining IESS program training requirements**,** developing and implementing the TMP, providing developer-generated training and furnishing IESS training materials to Service schoolhouses and site/unit OJT programs for use in their training initiatives.

5.1.1.2 Air Force Research Laboratory/IFE

The Acquisition Program Management Office at Rome Laboratory is responsible for overseeing the contractual requirements as they pertain to developer-furnished IESS training.

5.1.1.3 Points of Contacts

- NIMA/ATAMI
  Mr. Ken Pischel
  NIMA/ATAMI
  12310 Sunrise Valley Drive
  Reston, VA 20191-3449
  Commercial (703) 755-5585
- AFRL/IFE
  Ms. Linda Lehman
  32 Brooks Road
  Rome, NY 13441-4114
  DSN 587-7791, Commercial (315) 330-4150

5.1.2 Developer

The developer (General Dynamics Electronics Systems (formerly GTE Government Systems), Thousand Oaks, CA) is responsible for providing training to IESS sites in accordance with the specified terms of the contract. Normally, training will be conducted at the developer

facility/plant using the train-the-trainer philosophy. Personnel to receive this training include the imagery analysts, managers, and computer operators. Training may also be conducted on-site if circumstances dictate (large, complex revisions). In addition, the developer will generate and provide to the sites government approved training materials to include course syllabus, learning objectives, instructor/student guides, handouts, instructor notes (Lesson Plans) user manuals and appropriate training aides. Training materials will be disseminated via electronic media or hardcopy, at the site's option.

5.1.2.1 On-Site Representative

User organizations have the option of requesting on-site developer representatives to assist site personnel in the operation and maintenance of the IESS. NIMA is providing one on-site representative for each IESS site operational as of 1 October 1998. Sites activated after 1 October 1998 must provide their own funding for these representatives. On-site representatives are responsible for installing and testing government-approved IESS baseline software releases and patches, installing IESS operating system baseline changes, providing support during exercise and special contingency situations to ensure consistent system performance, assisting site personnel in maintaining IESS tables, assisting site personnel in performing hardware configuration audits for new operating systems, providing familiarization for IESS site personnel, and providing system administration and software maintenance support.

5.2 Training Support Organizations

The following organizations will provide guidance to the IESS Program in developing, implementing, evaluating, and managing IESS training.

5.2.1 NIMA

The National Imagery and Mapping College, College Administration and Policy, will monitor the training requirements of the IESS Program, provide guidance and assistance in defining and validating IESS training requirements, and oversee IESS training activities. The IESS TMP will be briefed and submitted to NIMA's Community Imagery Training Council (CITC) for approval.

5.2.2 Defense Intelligence Agency (DIA)

The DIA is responsible for overseeing the training activities of all DoDIIS migration systems, including IESS, to ensure that institutional general intelligence training is effective, efficient, and responsive to the intelligence analyst's needs. The General Intelligence Training System (GITS) Branch, DIA is responsible for monitoring course curriculum for GITS intelligence training.

5.3 User Organizations

User organizations are those service and/or command imagery exploitation organizations that utilize or plan to utilize an IESS. User organizations share in the responsibility for identifying user-training requirements.

5.4 Users

Users are those individuals who use the IESS in the accomplishment of their unit's day-to-day imagery exploitation mission. Also included in this category are those personnel assigned to maintain the IESS operational.

5.4.1 Imagery Analyst

The Imagery Analyst (IA) is the principal user of the IESS. The sole IA interface to the system is through the analyst workstation. The IAs are responsible for performing imagery exploitation and providing imagery-derived intelligence information and generating imagery-derived intelligence products.

5.4.2 Managers

- The Exploitation Requirements Manager has the responsibility for maintaining the accuracy, currency, and completeness of the data base requirements, which levy exploitation and dissemination tasking on the local site.

- The Dissemination Manager has the responsibility for managing imagery dissemination parameters and processes, and controls and prioritizes the imagery ordering process.

- The Exploitation Manager has the responsibility for managing the exploitation tasks and production of imagery-derived intelligence reports/products through the monitoring of the various parameters and workload assignments.

- The Data Base Manager is responsible for maintaining the accuracy, currency, and completeness of the IESS database.

5.4.3 Computer Systems Operator

Computer operator personnel are responsible for maintaining continuity of the day-to-day operations of the IESS and for maintaining the site-dependent data files and tables. They compile and link those modules required as a result of changes made to site-dependent data. They interface directly with the system hardware and indirectly, via the system monitor console, with the software. The operators serve as both communications and computer operations specialists.

Section 6 Training Requirements

6.0 Training Requirements

The following paragraphs provide the top level training requirements for the IESS.

6.1 Guiding Principles for IESS Training

IESS training will be developed as a team effort between the Program Office, the Service training centers, the developer, and the users. It will enable imagery analysts to use IESS effectively in providing imagery exploitation support to the warfighter and decision-makers. The foundation of the IESS training program is the use of experienced and knowledgeable supervisors to provide site OJT programs to enhance and expand upon the formal and developer-furnished training.

6.2 Training Mission

The mission of the IESS training program is to train the imagery-analyst on the functionality and operation of the IESS to the proficiency level required to perform the duties/tasks necessary to accomplish the imagery exploitation task. The program must also provide training to ensure the effective operation and maintenance of the system.

6.3 Top Level Training Requirements

6.3.1 Imagery Analysts

The Imagery Analyst needs to understand the imagery intelligence cycle and specifically the imagery exploitation and reporting process. They must understand the role that IESS plays in managing the imagery exploitation and reporting process and they must be able to use the IESS functions that facilitates the exploitation and reporting effort. Specific skills needed by the IAs to effectively and efficiently operate the system and perform their exploitation duties include:

- Understand IESS concept of operations and terminology.
- Familiarization with IESS interfaces with other systems and their functionality in ordering, receipt, and exploitation of imagery; production of imagery reports; and distribution of imagery and imagery products processes.
- Ability to sign on the system; use the window and pull-down menus; use the help, print, and exit functions, and log off the system.
- Ability to use the IESS Main Menu functions (to include Exploitation Requirements Management, Dissemination Management, Database Management, System Administration, Exploitation Management, and General Support).

- Ability to use the query capability of the system to include the Query Database, IIR Query, Basic Encyclopedia (BE) Query, Query Essential Elements of Information (EEI), and Query Target Identification (ID) functions.

- Ability to use the IIR History, History of Coverage (HOC) Coverage, Requirements Display, Target Specs, Latest Reports, Order-of-Battle (OB) High Count, and IA Notes functions to research a target.

- Ability to use the Task Determination and Item Create functions to write an imagery intelligence report.

- Ability to perform Coordinate Conversions and Date Conversions.

6.3.2 Managers

Specific management responsibilities vary from site to site. While IESS defines five functional areas (Exploitation Requirements, Dissemination, Exploitation, DataBase, and General Support), it is each site's prerogative how those areas are managed. One site may elect to assign one individual to oversee all five areas, while other sites may assign one individual to each area, or any combination in-between. Therefore, managers require a more in-depth understanding of IESS and the relationship between the five functional areas. In addition to requiring a knowledge of the above-listed IA skills, managers must also have the following:

- Understand the functions and operations associated with the five IESS functional management areas.

- Understand the requirements management/collection process to ensure that site requirements are defined and forwarded to the RMS.

- In-depth knowledge and understanding of the external IESS interfaces (RMS, GIAS/GIXS, DDS, Common Image Processor (CIP), etc.).

- Ability to define site parameters for ordering imagery, distributing reports, etc.

- Understand the IESS review and validation process for imagery reports.

6.3.3 Computer Systems Operator

Computer systems operators will require a system level technical understanding of the hardware and software capabilities of IESS, to include the IESS databases, software applications, and internal and external interfaces with the systems and infrastructures supporting the IESS. The operators serve as both communications and computer operational specialists. Their top-level training requirements include:

- Understand IESS concepts and terminology.

- Ability to maintain IESS hardware.

- Ability to identify software problems and work with the site-representative to resolve issues.

- Ability to interface IESS hardware and software to common infrastructure systems, such as communications systems and local area networks (LANs).

- Ability to interface directly with the system hardware and indirectly, via the system monitor consoles and system terminals, with the software.

- Ability to compile and link data file and table modules as a result of changes made to site-dependent data.

6.4 Student Prerequisites/Qualifications

The only prerequisite for IESS training is a requirement for Imagery Analysts to have completed a basic imagery analyst course.

6.5 Numbers and Types to be Trained

Personnel assigned to IESS sites come from all Service branches and exhibit different types and levels of skills and perform a variety of duties. Currently, the majority of IESS users are Air Force personnel assigned to joint command intelligence organizations (Joint Analysis Center (JAC), Joint Intelligence Center Pacific Command (JICPAC), etc.). The Marine Corps has a contingent of IESS users with the Marine Corps Intelligence Support Unit (MCISU) at Camp Pendleton and at three Tactical Exploitation Groups (TEG). The Navy has installed IESS units on-board seven ships and has begun migrating to its Joint Concentrator Architecture (JCA). The Army incorporated IESS into three Modernized Imagery Exploitation System (MIES) locations in 1997 and has just recently begun the deployment of their migration system, the Tactical Exploitation System (TES).

The following breakout provides worldwide IESS personnel training requirements:

- IAs/Managers (~1200): This includes the imagery analysts and managers who use the system to perform imagery exploitation and management functions for their units.

- Operators (~100): This includes the computer systems operators/database administrators who perform the daily maintenance and update to the systems files and databases and maintain the system to its full operational capability.

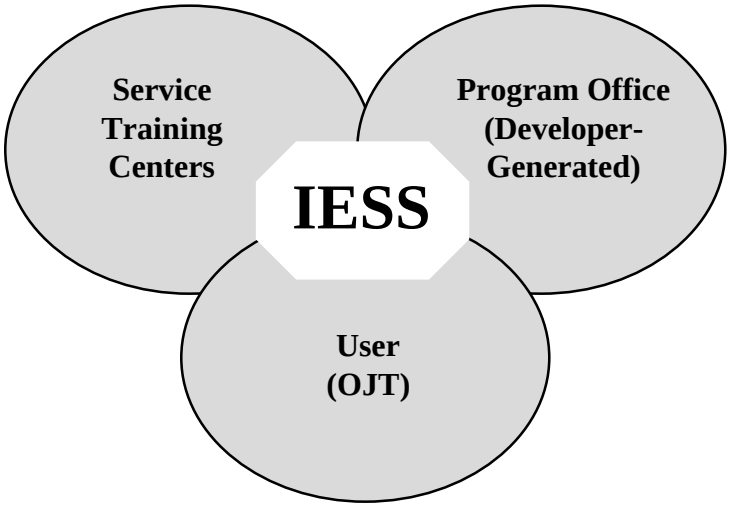
Section 7 Training Execution

7.0 Training Execution

The concept and execution of the IESS training program is described in the following paragraphs.

7.1 Training Concept

The overall IESS training concept is based on a coalition of training provided by: Service Training Centers, Program Management Office (developer-generated) and Users (OJT).



Initial formal training on IESS functionality and operations will be provided by the various Service Training Centers. The developer will provide IESS training during initial site installation, and subsequent version releases. Site specific and sustainment training is provided by individual sites through an OJT program (or other Command-sponsored training programs).

7.1.1 Service Training Centers

The Services will continue to pursue/enhance formal IESS baseline training at the schoolhouses. The PMO will provide these training centers with electronic and hardcopy formatted copies of all IESS training materials (to include all new releases/upgrades) to aid in the development/upgrade of a formal IESS course syllabus.

Today the Air Force provides formal IESS training at Goodfellow AFB, TX (315 TRS). They have incorporated a nine-day block of instruction (that includes IESS) into the basic imagery analyst course. Training is accomplished utilizing an operational IESS.

The Navy has developed a one-week IESS block of instruction, which they incorporated into their Joint Service Imagery Processing System – Navy (JSIPS-N) and Dissemination Management Course. The course is taught at the Navy and Marine Corps Intelligence Training

Center (NMITC), at Dam Neck, VA. The schoolhouse has acquired and incorporated an IESS into the curriculum.

The IESS PMO has had continuing discussions, with the Army training personnel at Fort Huachuca, as to the acquisition of an IESS and the start of an IESS training program, but no resolution has yet been reached.

7.1.2 Developer-Generated Training[1]

Developer training is provided by the developer prior to or during initial IESS installation and any subsequent new releases. This training may be provided on-site (for large, complex revisions) or at the developer plant by a team of developer-furnished instructors. In the past, this developer-furnished training has varied from site to site depending on site requirements (e.g., a site that does not use the Dissemination Management functionality did not receive that part of the curriculum). Site training attendance was also tailored to specific user duties. If a user would only be performing requirements management functions, he/she was required to attend only the Workstation Navigation, General Support, and Requirements Management sessions. However, because of personnel downsizing and increased workloads it is now strongly recommended that the sites employ the "Train the Trainer" concept to ensure that all site personnel receive all necessary training.

7.1.2.1 "Train the Trainer" Methodology

The Program Management Office encourages the use of "train-the trainer" method of instruction in which selected personnel receive extensive training (on all facets of IESS functionality) by the developer, and they in-turn train the rest of the unit's users. The advantage of this method is that instruction is concentrated towards a small group of handpicked personnel, thus increasing the learning and knowledge retention curve. In addition, the site gets a small core of highly trained personnel to provide initial and sustainment IESS training. A pre-requisite to the success of this program is the selection and retention of the site instructors. Sites must identify experienced and motivated personnel to act as their IESS training gurus in order to reap the most benefits from their program.

7.1.3 User-Generated Training (OJT)

On-the-Job training is site-specific and takes into account the unit's mission, roles and responsibilities, tasking, and procedures. Site commanders are responsible for developing an effective OJT program to ensure that all assigned personnel receive site specific and sustainment training. The OJT programs include the capabilities inherent in the IESS system and how they relate to the mission requirements/roles/concepts unique to each IESS site. This training emphasizes the operational mission of the system and "how" and "when" the system is used by the analyst in performing his/her duties. The developer provides the sites with all the training documentation and materials necessary for a structured OJT program.

[1] See Section 8 for additional details on developer-generated training.

7.1.3.1 Computer-Based Training

IESS is a legacy system. The development of computer-based training has been determined to be out of scope to the overall IESS development and transition to Workflow Management.

7.1.4 Integrated Training

Integrated training provides the users with a "systems" level perspective of how all the segments/components function in an integrated environment to permit the accomplishment of the mission. It has often been referred to as "A Day In the Life of…" The IESS Program Office has been actively engaged in integrated training since 1997 when, working with the Navy's PMA-281 and the Dissemination Element (DE) Contractor, an integrated training approach to the Navy's JSIPS-N Dissemination Management Course was developed. Current IESS integrated training activities include the EAC-NIES training and GraphPlot training for United States Joint Forces Command (USJFCOM) and United States Pacific Command (USPACOM).

7.1.5 Refresher Training

The IESS Program Office has initiated a plan to provide refresher training to IESS sites. At many of our sites it has been 5 years or more since any formal, full-up IESS training was conducted. With the continual assignment of new Imagery Analysts (newly minted from the Service Training Schools) and the turn-over of assigned personnel, the experience level of IESS users has diminished and many sites are either not aware of or do not use all the functionality incorporated into IESS.

This new initiative will begin with a Program Office Training Needs Analysis Team visiting each site to examine its current Concept of Operations (CONOPS) and mission and to determine what training is required to enable the IAs to make better use of IESS functionality. Following this needs analysis, a training team will return to the site with a site-tailored training course.

The major emphasis of this program will initially focus on the NIES sites. As they receive their new architecture, it is critical that they understand and use IESS to its full potential. The remaining sites will be scheduled for this refresher training as resources and scheduling permit.

7.1.6 Other Available Services

To assist in the overall training program the following services are also available to the users:

- On-line help is available through the IESS software.

- A hotline is manned during normal business hours and voice mail is available around the clock and monitored by the developer during the non-business hours. All site representatives have the home phone numbers of their General Dynamics Points-of-Contact.

- Sites can, on an as needed basis, request additional developer-furnished refresher training. However, funding for this training is not included in contractual obligations of the developer, and, therefore, must primarily be the responsibility of the requesting user organization.

Section 8 Developer-Generated Training

8.0 Developer-Generated Training

The IESS developer provides upgrade training upon new releases and new site training to those sites transitioning to IESS.

8.1 Major System Upgrade Training

As noted previously IESS is in the midst of several major/minor upgrades (IESS v1.0 - v4.3). Differences in the magnitude and complexity of the various releases dictate distinct training approaches as noted below.

8.1.1 IESS Version 1.0/1.1

8.1.1.1 Major System Upgrades

IESS evolved from the Computer Aided Tactical Information System (CATIS) with IESS v1.0/1.1 which implemented the following major upgrades.

- Interface with the Requirements Management System
- United States Strategic Command (USSTRATCOM) functionality
- Joint Service Imagery Processing Service (JSIPS) functionality (IESS v1.1)
- SYBASE Operating System

8.1.1.2 Installation

IESS v1.0 installation at the various sites occurred in the late 1995 - early 1996 timeframe.

8.1.1.3 Training Schedule

IESS v1.0 training was conducted on-site at the time of installation.

8.1.1.4 Training Methodology

IESS was a significant change from CATIS with the addition of USSTRATCOM and JSIPS functionality and a new interface in RMS. Thus, training consisted of a one-two week (varied depending on attendees skill levels) functional course specifically for the imagery analysts and a two-day course for the computer systems operators. This training was conducted on-site and consisted of hands-on instruction utilizing an operational IESS system. Class size was limited to 12 persons per session with the individual sites making attendee determination. Instructors followed the course outline at Appendix A when providing this training.

8.1.1.5 Training Outline - See Appendix A

8.1.2 IESS Version 2.0

8.1.2.1 Major System Upgrades

IESS v2.0 is the result of the following upgrades to the system:

- Enhanced Processing Segment (EPS)
- Extended Tether Program (ETP)

8.1.2.2 Installation

Installation was completed by May 1997 (E209 dependent).

8.1.2.3 Training Schedule

IESS v2.0 training was conducted in late April 1997.

8.1.2.4 Training Methodology

IESS v2.0 training was primarily limited to changes to the Dissemination Management function and the complexity level was far less than the upgrades in v1.0. Training consisted of two-day training sessions with the course being conducted in the developer's plant to site-selected personnel. Training took the "train-the-trainer" approach where the trained personnel returned to their respective sites and trained the remaining unit's personnel. The training incorporated new functionality designed into the system to capture the enhancements to the dissemination management process with the Initial Operating Capability (IOC) of the EPS and the ETP. A training survey was sent to each site's dissemination manager, explaining the format of the training, the emphasis of the training, and requesting specific feedback (in the form of responses to the survey) on the experience level of the selected trainee, expected emphasis of this training, and weaknesses or problem areas that the site would like to see addressed. The actual training course was then tailored in response to the survey.

8.1.2.5 Training Evaluation

Both formal (student critiques) and informal evaluation indicated that v2.0 training was extremely successful.

8.1.2.6 Training Outline - See Appendix B

8.1.3 IESS Version 3.0

For the purpose of this TMP IESS v3.0 training is divided into two principal user groups, National Air Intelligence Center (NAIC), the prime recipient of the v3.0 functionality, and the remaining IESS sites.

8.1.3.1 Major System Upgrades

IESS v3.0 is the result of the following upgrades to the system:

- Incorporation of NAIC functionality
- Enhanced Softcopy Exploitation Management (SEM) requirements
- Expanded Navy Afloat requirements

8.1.3.2 Installation

Installation of IESS v3.0 at NAIC was completed during October 1997 with 17 sites installed in March 1998 and an additional seven in April 1998.

8.1.3.3 Training Schedule

A three-step approach was developed to meet NAIC's training needs - an informal familiarization course in September 1997, followed by formal developer training at install and finally an over-the-shoulder wrap-up after developer-generated training. Formal training for the remaining sites was conducted at the developer's site in the mid-January 1998 timeframe using the train-the-trainer methodology.

8.1.3.4 Training Methodology

NAIC, being a new IESS site, together with their unique Scientific and Technical mission, demanded an innovative and proactive approach to their training needs. The training approach took into account NAIC's limited experience with IESS functionality and the unit's unique mission and concept of operations. It provided for a three-phased program consisting of initial familiarization training, followed by formal developer training, and finally an over-the-shoulder wrap-up.

- Familiarization Training

  One of the lessons learned from IESS v1.0 training was the difficulty in assimilating all the terminology and functionality of the IESS system when a user had no previous experience or frame of reference. Familiarization training was designed to provide this frame of reference and instill confidence in the system. NAIC operated a system designed especially for their specific needs (PHOTOLS/HOST 88).

  Familiarization training occurred in the 15-26 September 1997 timeframe. It was developed and conducted by functional personnel (with previous IA/IESS experience) within the IESS Program Office. The training was designed to map current NAIC functionality to IESS functionality and to acquaint the NAIC users with the IESS Graphical User Interface (GUI) screens and menus.

- Formal Training

  Formal training was developed and conducted by the developer as close to system installation as possible (20-31 October 1997). All personnel requiring IESS training were trained on-site utilizing an operational system.

- Over-the-Shoulder Wrap-up

  The over-the-shoulder wrap-up took place in May 1998 with developer providing assistance (where needed) after NAIC personnel had operationally used the system for a couple of months.

Formal IESS v3.0 training for the remaining sites was conducted in three two-day sessions (26 January - 3 February 1998) with methodology being similar to v2.0 training, with the developer providing train-the-trainer instruction to site-selected personnel at the developer's facility. The trained personnel are in-turn responsible for providing follow-on IESS v3.0 training at their individual sites. Previously, a training survey was sent to each site explaining the format of the training, the emphasis of the training, and requesting specific feedback to specific questions (similar to the v2.0 approach). The actual training course was tailored in response to the survey. A dry run of the course was conducted and evaluated by the PMO on 7-8 January 1998.

8.1.3.5 Training Outline - See Appendix C

8.1.4 IESS Version 3.1

8.1.4.1 Major System Upgrades

- Support a mixed IDEX II and SEM exploitation environment
- Secondary Products Review and Validation (R&V)

8.1.4.2 Installation

Installation completed in October 1998.

8.1.4.3 Training Schedule

Training conducted in August 1998.

8.1.4.4 Training Methodology

Formal IESS v3.1 training was conducted using the methodology similar to v2.0/3.0 (three 2-day sessions) with the developer providing train-the-trainer instruction, to site-selected personnel, at the developer's facility.

8.1.4.5 Training Evaluation

Both formal (student critiques) and informal evaluation indicated v3.1 training was extremely successful.

8.1.4.6 Training Outline - See Appendix D

8.1.5 IESS Version 3.2

8.1.5.1 Major System Upgrades

- Graphical Situation Display (GSD) Phase 2
- Selected Image Target Area (SITA) Enhancement

8.1.5.2 Installation

Installation completed in June 1999.

8.1.5.3 Training Schedule

Training conducted 12-21 April 1999.

8.1.5.4 Training Methodology

Training methodology was similar to v2.0/3.0.

- 3 sessions for users, 1 session for developers
- Train-the-Trainer
- Developer facility
- 1-2 days

8.1.5.5 Training Evaluation

A government evaluation of the proposed course of instruction took place at a dry run on 6-7 April 1999. In addition, each student taking the formal course had the opportunity to critique the course.

8.1.5.6 Training Outline – See Appendix E

8.1.6 IESS Version 4.0

8.1.6.1 Major System Upgrades

- Enhanced Imaging System

8.1.6.2 Installation

Installation completed in September 1999.

8.1.6.3 Training Schedule

Training conducted 28 June – 8 July 1999.

8.1.6.4 Training Methodology

Training methodology was similar to v2.0/3.0.

8.1.6.5 Training Evaluation

A government evaluation of the proposed courses of instruction took place at the dry run on 15-16 June 1999. In addition, each student taking the formal course had the opportunity to critique the course.

8.1.6.6 Training Outline – See Appendix F.

8.1.7 IESS Version 4.1

8.1.7.1 Major System Upgrades

- Broad Area Search (BAS) Target (Tasking and Exploitation)
- RMS Dissemination Only Product Code
- CIP interface

8.1.7.2 Installation

Installation completed May/June 2000.

8.1.7.3 Training Schedule

There is no formal training associated with v4.1.

8.1.7.4 Training Methodology

IESS v4.1 added a new type of target (BAS) to the IESS baseline. There was no functional change from a user's perspective (other than to a few screens where BAS was added as a target type). During the IESS v4.0 training, the developer included a section on BAS targets and sites were informed at that time that no formal v4.1 training would occur. The IESS developer created an "Imagery Exploitation Support System (IESS) 4.1 Delta Student Familiarization Training"

document that describes BAS targets and how IESS processes them. This document is currently posted on the IESS Intelink Home Page.

8.1.7.5 Training Evaluation

Not applicable.

8.1.7.6 Training Outline – See Appendix G

8.1.8 IESS Version 4.2

8.1.8.1 Major System Upgrades

- Performance Improvements/Enhancements
- Every Time Covered

8.1.8.2 Installation

Installation completed January/February 2001.

8.1.8.3 Training Schedule

There is no formal training associated with v4.2

8.1.8.4 Training Methodology

IESS v4.2 contains performance improvements/enhancements, but results in no changes to current IESS user processes. Therefore, there is no formal training. The IESS v4.2 Delta Student Familiarization Training document, which provides detailed information on these enhancements, has been posted on the IESS Home Page (Intelink: http://web1.rome.ic.gov/iess>).

8.1.8.5 Training Evaluation

Not applicable.

8.1.8.6 Training Outline – See Appendix H

8.1.9 Enhanced Analyst Client (EAC) Version 1.0

EAC v1.0 is only scheduled to be deployed as part of NIES. Until the remaining non-IDEX IESS sites get a GIAS Compliant library, they are unable to use the EAC. Therefore, EAC training was divorced from regular IESS training and incorporated into the NIES integrated training. As part of the NIES, EAC training complies with the procedures/requirements as outlined in the Integrated Training Management Plan for IDEX Replacement at USJFCOM, dated 15 November 1998.

8.1.9.1 Major System Upgrades

- Web-based user interface
- Interfaces with NIMA Library and Integrated Exploitation Capability (IEC)

- Provides task list (tasks, images, targets, and requirements), thumbnails of images in task; reference materials for targets in task
- Stages mission image and reference materials to Softcopy Workstation/Electronic Light Table (ELT)

8.1.9.2 Installation

EAC v1.0 will be installed as part of NIES. The first site (USJFCOM) received their NIES and training in the September/October 2000 timeframe, USPACOM completed theirs in December 2000, and United States Central Command (USCENTCOM) received their training in the April/May 2001 timeframe. Schedule for remaining IDEX sites has been developed by the NIES Project Team and coordinated with each site.

8.1.9.3 Training schedule

The training schedule has been established by the NIES Project Team working with the remaining NIES sites. This training is being coordinated by and conducted under the auspices of the NIMA College.

8.1.9.4 Training Methodology

The procedures for the NIES training at USJFCOM, USPACOM, and USCENTCOM are defined in the Integrated Training Management Plans for IDEX Replacement at USJFCOM, USPACOM, and USCENTCOM. The NIES Project Team is developing individual Training Management Plans for the remaining sites. In these plans, the IESS PMO has been allotted an 8 hour block in which to present IESS/EAC training.

All EAC NIES training has been coordinated with and approved by the NIMA College, which has the overall responsibility for NIES training. Training course materials have been developed and approved.

8.1.9.5 Training Evaluation

This will occur as part of the NIES training.

8.1.9.6 Training Outline – See Appendix I

8.1.10 EAC Version 2.0

EAC v2.0 will be fielded to all IESS sites. It has been enhanced to include a SEM functionality that will allow non-GIAS compliant library sites to utilize EAC.

8.1.10.1 Major System Upgrades

- Enhancements to EAC to further support NIES
- DE/Image Product Library (IPL) Application Program Interface (API) interface to support SEM capability at non-GIAS compliant sites

8.1.10.2 Installation

Currently scheduled for **October** 2001.

8.1.10.3 Training Schedule (TBD006)

No formal delta training for current EAC v1.0 sites will be scheduled. A formal training class for new EAC sites (non-NIES) will be conducted at the developer's facility in the July/August 01 timeframe. As each site migrates to EAC v2.0, a developer-led training team will provide individual site training. The IESS Program Office will coordinated the individual site EAC training with each site.

8.1.10.4 Training Methodology

EAC v2.0 contains minimal changes in functionality for NIES sites currently operating EAC v1.0. A compact disk (CD) containing the changes in EAC v2.0 will be sent to all EAC v1.0 sites and well as posting the training on the IESS Home Page.
New NIES sites (receiving EAC v2.0) will receive their training in accordance with the NIES Training Plan developed for that site.
A formal EAC training class (to include functionality in EAC v1.0 and EAC v2.0) will be scheduled in the July/August 01 timeframe for all non-NIES sites. This will be conducted using the Train-the-Trainer methodology. Each non-NIES site will be migrating to EAC based on their own CONOPS and needs. Some may not begin using EAC for 12 months after installation. Therefore, the IESS Program Office, in additional to the formal training class, will provide individual site EAC training at the time each site stands up their EAC. These training visits will be coordinated with each site.

8.1.10.5 Training Evaluation

A government evaluation of the proposed courses of instruction will take place on 28 June 2001 during the training dry run at the developer's facility. Each student taking the formal course will have the opportunity to critique the course.

8.1.10.6 Training Outline – See Appendix J

8.1.11 GraphPlot v1.0

In January 1997, the IESS program office took the responsibility to develop an alternative reporting capability to replace the non-Year 2000 (Y2K) - compliant PLOTSHEET application at USJFCOM and USPACOM. Working with the GSD Program Office from the Army Space Program Office (ASPO) and the General Dynamics DIEPS (ELT) Program Office, the IESS PMO developed the GraphPlot capability. GraphPlot allows a user to create a base map (outline), drop icons on overlays to create the GraphPlot product, and convert the graphical icon data to a text-based IIR. This capability was installed at USJFCOM in December 1999 (PACOM subsequently devised a means to Y2K this system and have deferred installation until summer/fall 2000). As this is a unique capability, special training was developed by the three program offices and provided to USJFCOM in December 1999.

8.1.11.1 Major System Upgrades

- Replacement of PLOTSHEET
- Integration of GSD

8.1.11.2 Installation

The capability was deployed to USJFCOM in December 1999. Unless the current PLOTSHEET application at USPACOM suffers a catastrophic failure, there will not receive GraphPlot v1.0, but have elected to wait for GraphPlot v2.0.

8.1.11.3 Training Schedule

Integrated training (by IESS and DIEPS) was provided to USJFCOM at time of installation in December 1999.

8.1.11.4 Training Methodology

Training at USJFCOM occurred over a two-week period. There are two shifts of PLOTSHEET analysts and each was given 2 days of training by both IESS and DIEPS personnel. The remainder of the time was spent observing the analysts perform their mission using this new functionality and providing over-the-shoulder training/assistance as required. When the EAC is installed at USJFCOM, IESS will provide additional training for the GraphPlot users to assist them in using the specially developed GraphPlot capability in the EAC.

8.1.11.5 Training Evaluation

The new GraphPlot users expressed great satisfaction with the training provided.

8.1.11.6 Training Outline – See Appendix K

8.1.12 IESS v4.3

IESS v4.3 is currently in requirements analysis and design phase. It will contain new functionality mainly in support of the Distributed Common Ground Station (DCGS) users.

8.1.12.1 Major System Upgrades

- Support for externally generated local BE numbers
- Exploitation management of Moving Target Indicator (MTI) data
- Capability for one site to delegate exploitation to another site and to transfer all supporting exploitation/historical data/imagery
- Re-incorporation of mapping capability
- Product R&V

8.1.12.2 Installation

Installation is scheduled for February 2003.

8.1.12.3 Training Schedule (TBD011)

8.1.12.4 Training Methodology

Training methodology will be similar to that provided for IESS v2.0/3.0/4.0.

8.1.12.5 Training Evaluation

A government evaluation of the proposed courses of instruction will take place prior to the user training sessions. In addition, each student taking the course will have the opportunity to critique the course.

8.1.12.6 Training Overview – Appendix L (TBD012)

8.1.13 EAC v2.1

8.1.13.1 Major System Upgrades

- Upgrades to support GIAS 3.5.1 and GIXS 1.2
- Multiple Library Support
- Target Deck to the NIMA Library to support target to image correlation (TIC)

8.1.13.2 Installations (TBD013)

EAC v2.1 is scheduled to be deployed in the December 2001/January 2002 timeframe. However there are external dependencies that will determine the exact installation schedule. Installation at NIES sites will be determined/controlled by the NIES Project Team. Deployment to non-NIES sites will be determined by the availability of the GIAS 3.1 compliant IPL. Since EAC 2.1 is the GIAS 3.5.1 and GIXS 1.2 upgrade version, all interfacing segments must also be at the same GIAS/GIXS version at time of installation.

8.1.13.3 Training Schedule (TBD014)

8.1.13.4 Training Methodology (TBD015)

8.1.13.5 Training Evaluation (TBD016)

8.1.13.6 Training Outline – Appendix M (TBD017)

8.1.14 GraphPlot v2.0

GraphPlot v2.0 is the follow-on development. It will use the Graphical Exploitation Tool (GET)(developed as part of the Assisted Target Monitoring System (ATMS) technology for USPACOM) as the replacement for the GSD Toolkit.

8.1.14.1 Major System Upgrades

- Replace of GSD with GET
- Interface between IESS and GET
- Incorporation of GET into the ELT

8.1.14.2 Installation (TBD018)

This capability will be delivered to USJFCOM and USPACOM in the July 2002 timeframe.

8.1.14.3 Training Schedule (TBD019)

8.1.14.4 Training Methodology

An integrated training team composed of representatives from the GET developer, IESS developer, IESS Program Office, and ELT vendor will conduct site training/post training support as part of the installation of GraphPlot v2.0.

8.1.14.5 Training Evaluation (TBD020)

8.1.14.6 Training Outline – Appendix N (TBD021)

8.2 New Site Training

In addition to system upgrade training, the PMO in conjunction with the developer, provides new site training -- that is those sites transitioning to an IESS. Given that new IESS sites lack the experience of the more seasoned sites, initial IESS training for these sites takes on an increased emphasis by the PMO. There can be pre-training exchange meetings to discuss overall training strategy and plans, followed by pre-installation training (on-site or at more experienced operational sites), formal developer-generated training, and finally a post-installation over-the-shoulder training session. Site specific training plans are developed outlining the new sites' IESS training program in detail.

An example of this type of site-specific approach to training needs is the NAIC training program as profiled in paragraph 8.1.3[2]. Another example is the training program PMO is for the Marines - utilizing mentor training. Mentor training consists of a new IESS site sending its personnel to an operational site to sit side-by-side with an IA and become familiar with the IESS. Marine Corps personnel at the MCISU, Camp Pendleton, completed mentor training, conducted by USJFIC and USCENTCOM IESS sites. Mentor training is done on a site-by-site basis with the complete concurrence and cooperation of the mentoring site(s).

[2] For further details on the NAIC training concept and methodology see "NAIC IESS Version 3.0 Training Plan, Revision A."

8.3 Training Support

8.3.1 Facility Requirements

When IESS training is conducted on-site each site must furnish suitable space with workstations, white board, a vugraph projector, and a screen. Room layout must afford each student, sitting at a workstation, a clear view of the whiteboard and screen. The developer is responsible for these requirements when IESS training is conducted at the developer facility.

8.3.2 Training Materials

Training materials generated by the developer will include course syllabus, learning objectives, instructor/student guides, handouts, instructor notes (Lesson Plans) user manuals and appropriate training aides. All training material must be approved by the IESS PMO prior to initiation of formal instruction.

8.3.3 Training Equipment

Training will consist of hands-on instruction, utilizing the IESS, of the new/modified functions and hardware operations of the system. There are no requirements for training devices to be developed.

8.4 Instructor and Course Evaluation

The developer will provide the government a review of the course content and a demonstration of instructor proficiency during a scheduled dry-run.

8.5 Critiques

Upon completion of developer-furnished training, those personnel in attendance will be asked to complete a course critique worksheet providing immediate feedback to the PMO. In addition, the Program Office will conduct a 60-day follow-up critique on the provided training by contacting site supervisors to assess the quality of the training program their personnel received.

8.6 Resources

Funding for developer-furnished IESS training (Versions 1.0 - 4.3 and EAC v1.0-2.1) is provided through the development contract. Funding takes into account course preparation to include course materials (user manuals, training aids, etc.), instructors, and travel. Space (classroom) and equipment (IESS) requirements for the developer-furnished training are provided by each individual user site when appropriate.

Formal military training is the responsibility of each command and uses the resources of their command training programs. User Services, Commands, and Agencies will provide funding for integration of and attendance at formal schoolhouse IESS training, and the individual site OJT training programs within their purview.

Section 9 Glossary

9.0 Glossary

AFRL	Air Force Research Laboratory
API	Application Program Interface
ASPO	Army Space Program Office
ATMS	Assisted Target Monitoring System
BAS	Broad Area Search
BE	Basic Encyclopedia
CATIS	Computer Aided Tactical Information System
CD	Compact Disk
CIP	Common Image Processor
CITC	Community Imagery Training Council
CONOPS	Concept of Operations
DCGS	Distributed Common Ground Station
DDS	Defense Dissemination System
DE	Dissemination Element
DIA	Defense Intelligence Agency
DMB	DoDIIS Management Board
DoD	Department of Defense
DoDIIS	Department of Defense Intelligence Information System
EAC	Enhanced Analyst Client
EEI	Essential Elements of Information
ELT	Electronic Light Table
EPS	Enhanced Processing Segment
ETP	Extended Tether Program
GET	Graphical Situation Tool
GIAS	Geospatial and Imagery Access Services
GITS	General Intelligence Training System
GIXS	Geospatial and Imagery Exploitation Services
GMI	General Military Intelligence
GSD	Graphical Situation Display
GUI	Graphical User Interface
HOC	History of Coverage
HUMINT	Human Imagery
IA	Imagery Analyst
ID	Identification

IDEX II	Image Data Exploitation II
IEC	Integrated Exploitation Capability
IIR	Imagery Interpretation Report
IPL	Image Product Library
IMINT	Imagery Intelligence
IOC	Initial Operating Capability
IRP	IDEX Replacement Program
JAC	Joint Analysis Center
JCA	Joint Concentrator Architecture
JICPAC	Joint Intelligence Center Pacific Command
JSIPS	Joint Service Imagery Processing System
JSIPS-N	Joint Service Imagery Processing System – Navy
LAN	Local Area Network
MASINT	Measurement and Signature Intelligence
MCISU	Marine Corps Intelligence Support Unit
MIDB	Modernized Integrated Data Base
MIES	Modernized Imagery Exploitation System
MTI	Moving Target Indicator
NAIC	National Air Intelligence Center
NIES	National Imagery Exploitation System
NIMA	National Imagery and Mapping Agency
NMITC	Navy and Marine Corps Intelligence Training Center
OB	Order-of-Battle
OJT	On-the-Job Training
PMO	Program Management Office
RMS	Requirements Management System
R&V	Review and Validation
SEM	Softcopy Exploitation Management
SIGINT	Signals Intelligence
SITA	Selected Image Target Area
TBD	To be Determined
TBR	To be Resolved
TEG	Tactical Exploitation Group
TES	Tactical Exploitation System
TIC	Target to Image Correlation
TMP	Training Management Plan

UIP	USIGS Interoperability Profile
USCENTCOM	United States Central Command
USJFCOM	United States Joint Forces Command
USPACOM	United States Pacific Command
USSTRATCOM	United States Strategic Command
USIGS	United States Imagery and Geospatial Information Service
Y2K	Year 2000

Appendix A

IESS v1.0/1.1 Training Outline

- General instructions and overview
- Workstation Navigation
- Imagery
- Requirements Management
- Exploitation Management
- General Support
- Dissemination Management
- Database Management and System Administration

Appendix B

IESS v2.0 Training Outline

The following is an outline of IESS v2.0 training:

- Dissemination Message flows
  - Normal message flow between IESS and System III, beginning with ESDs
  - Messages pertaining to retrieving archived information (PIR/PID/RER)
  - Messages pertaining to recovery processing (RDM/RPM)
- Overview of IESS 2.0 changes for Dissemination Management
  - ETP (System D ESD from System III)
  - Enhanced POI Filtering
  - EPS changes
    - Replaces the PS
    - For System B adds IW and redo ESD. Removes TA ESD
    - New media of tape
    - Customer codes/producer codes
    - Can order using different bandwidth compression
    - Enhances current Broadcast capability
    - No longer process an SEM message
    - Eliminates the concept of start and end of sort
    - Replaces current IDM types of “current”, “ad hoc” and “update” with “EPS”, “RS archive”, and “update”
    - 2 character Dissemination priority
- Dissemination Function Review
  - Requirements changes - local requirements example
  - Dissemination parameters
  - Message review/creation
  - Imagery ordering
    - IDM review
    - Sort status review
    - IDM cleanup
    - Quality IMP request
    - FAF block recalculation
  - Mission coverage
    - PID display
    - RER review
    - Recovery RER create
  - Transmission queue review
  - IMP count summary
  - ESD/POI targets review

- Backup target maintenance
  - Backup target parameters
  - Backup target database review

Appendix C

IESS v3.0 Training Outline

The following is an outline of IESS v3.0 training.

General/Common System Introduction

	Topic	Lecture	Lab	Total
I	System Architecture	0:10	0:00	0:10
II	System Operations Overview	0:15	0:00	0:15
III	Database organization a. Database Design	0:05	0:00	0:05

Workstation Navigation

	Topic	Lecture	Lab	Total
I	Workstation Navigation	0:30	0:00	0:30
	a. Screen Categories			
	b. Menus and Buttons			
	c. Scrolling			
	d. Lists and Selections			
	e. Colors			
	f. Sensitizing/Desensitizing			
	g. Dialog Boxes			
	h. Common Features			
	I. Templates			

Functional User Common Capabilities

	Topic	Lecture	Lab	Total
I	Help	0:05	0:00	0:05
	a. On Context			
	b. On Window			
	c. On Help			
	d. On Functions			
	e. On Local			
II	Task Determination	0:10		0:10
III	User Data Maintenance	0:10	0:10	0:20
	a. Update Task Determine			
	b. Hit File Maintenance			
IV	Target Specifications	0:05	0:05	0:10
V	Requirements Display	0:05		0:05
VI	Latest Reports	0:02		0:02
VII	IIR History	0:05	0:05	0:10
VIII	HOC Display	0:05		0:05
IX	Archived Data Review	0:02		0:02
X	IA Notes	0:02		0:02
XI	Database Query	0:30	1:00	1:30
	a. Query Database			
	b. IIR Query			
	c. Circle Search			
	d. Fleeting Targets Query			
	e. Incoming Significant Item Query			
	f. BE Query			
	g. Query Supplemental Data			
XII	Image Correlation	0:05	0:05	0:10
XIII	Collateral Projects	0:05	0:10	0:15
XIV	Alert Reports Review Only	0:02		0:02
XV	Conversions	0:05	0:05	0:10
	a. Coordinate Conversion			
	b. Convert Dates			
XVI	Order of Battle High Count	0:02		0:02
XVII	TACELINT Review	0:05	0:05	0:10
XVIII	General Reports	0:05	0:05	0:10

Imagery Analyst and Review & Validation Capabilities

	Topic	Lecture	Lab	Total
I	Imagery Analyst	2:00	2:00	4:00
	a. Task Determination			
	b. User Data Maintenance			
	c. Softcopy Work Session			
	d. Item Create			
	e. Target Specifications			
	f. Requirements Display			
	g. Latest Reports			
	h. IIR History			
	I. History of Coverage			
	j. Non-IIR Requirements Satisfaction			
	k. UEW Review			
	l. CTTF Create			
II	Review & Validation	2:00	2:00	4:00
	a. Review & Validation Options Select			
	b. Item Create			
	c. Target Specifications			
	d. Requirements Display			
	e. Latest Reports			
	f. IIR History			
	g. History of Coverage			
	h. IIR Header			
	i. IIR Output Profile			
	j. IIR Assembly and Transmission			
	k. UEW Review			
	l. CTTF Create			
	m. CTTF Modify			
	n. Transmit CTTF			

Requirements Management Capabilities

	Topic	Lecture	Lab	Total
I	Local Requirements	0:30	0:30	1:00
	a. Local Query Requirements			
	1. Default Target			
	2. Requirements List			
	b. Delete Local Requirements			
II	Generate REQUPD	0:30	0:30	1:00
	a. Requirement Query			
	b. Target Query			
	c. Transmit AU Requirements			
III	REQUPD Review	0:10	0:10	0:20
IV	UEW Review	0:15	0:10	0:25
V	Due Date Review	0:05	0:05	0:10
VI	Work Order	0:25	0:25	0:50
a.	a. Maintain Work Order			
b.	b. Create Work Order			
VII	Local IP	0:15	0:10	0:25
a.	Create Local IP			
b.	Review Local IP			
VIII	Maintain IRS Profile	0:20	0:30	0:50
IX	Process ETD/EDIR Errors	0:20	0:20	0:40
X	Process RMS Problem Messages	0:20	0:20	0:40
XI	Seed Nom	0:20	0:20	0:40
a.	a. Create Seed Nom			
b.	b. Maintain Seed Nom			
XII	Database Query	0:20	0:20	0:40
	a. Query EEI			
	b. Query ER ID			
	c. Query IP ID			
	d. Query Target ID			
	e. Query Seed Nom			
	f. Query Imagery Purpose Data			
	g. Query CTTF			
XIII	Mandatory Message Review	0:10	0:10	0:20

Dissemination Management Capabilities

	Topic	Lecture	Lab	Total
I	Dissemination Parameters	0:30	0:30	1:00
II	Backup Target Parameters	0:10	0:10	0:20
III	Backup Target Database Review	0:10	0:10	0:20
IV	CAT Diameter Maintenance	0:10	0:10	0:20
V	PID Display	0:10	0:10	0:20
VI	RER Review	0:20	0:20	0:40
VII	IDM Review	0:20	0:20	0:40
VIII	Mandatory Message Review	0:10	0:10	0:20
IX	ESD/POI Targets Review	0:10	0:10	0:20
X	Sort Status Review	0:20	0:20	0:40
XI	Transmission Queue Review	0:20	0:20	0:40
XII	Quality IMP Request	0:15	0:15	0:30
XIII	FAF Block Recalculation	0:15	0:15	0:30
XIV	IDM Cleanup	0:10	0:10	0:20
XV	IMP Count Summary	0:10	0:10	0:20
XVI	Message Review	0:10	0:10	0:20
XVII	Recovery RER Create	0:10	0:10	0:20

Exploitation Management Capabilities

	Topic	Lecture	Lab	Total
I	Task Parameters Maintenance	0:45	0:45	1:30
	a. Team Definition			
	b. Planning Priority Maintenance			
	c. Task Priority Modifiers			
	d. Media Allocation Parameters			
	e. Softcopy Parameters			
II	Softcopy Tasking Queue Maintenance	0:30	0:30	1:00
III	Image List	0:15	0:15	0:30
	a. Review			
	b. Review All			
IV	Image Data Maintenance	0:15	0:15	0:30
	a. Problem Image Review			
	b. Softcopy Problem Images			
	1. System III IMPs			
	2. D2C Images			
	3. ESDRM Create			
	4. SEM Problem Images			
V	Exploitation Task Maintenance	0:20	0:20	0:40
	a. Exploitation Task Query			
	b. Exploitation Task Maintenance			
VI	Maintain Shoebox	0:15	0:15	0:30
	a. Create Shoebox			
	b. Query Shoebox			
VII	UEW Review	0:15	0:10	0:25
VIII	Exploitation Statistics	0:10	0:10	0:20
	a. Item Type Summary			
	b. Transmitted Report Summary			
IX	Image Data Maintenance (Cont)	0:10	0:10	0:20
	a. Image Definition			
	b. Courier Hardcopy Imagery Receipt			
	c. Imagery Availability Maintenance			
X	Target Type Maintenance	0:10	0:10	0:20
XI	Mission Reporting Summary	0:05	0:10	0:15
XII	Production Orders	0:05	0:05	0:10
XIII	EEI Not Satisfied Review	0:05	0:05	0:10
XIV	Correct PLOTSHEET Data	0:10	0:10	0:20
XV	Define Target List	0:10	0:10	0:20
XVI	Maintain JSIPS Mission	0:10	0:10	0:20
XVII	Route Coverage Definition	0:10	0: 10	0:20

Database Management Capabilities

	Topic	Lecture	Lab	Total
I	AOI Definition	0:20	0:20	0:40
II	ISSO (Workstation Function)	0:15	0:15	0:30
III	Maintain Workstation Parameters	0:10	0:10	0:20
IV	Incoming IIR Maintenance	0:15	0:20	0:35
	a. IIR Profile Maintenance			
	b. IIR Item Profile Maintenance			
V	Target Maintenance	0:15	0:15	0:30
	a. Point Target			
	b. Area Target			
VI	Operation Plan Maintenance	0:10	0:10	0:20
VII	DPI Maintenance	0:10	0:10	0:20
	a. Default Target			
	b. Target List			
VIII	Target Diameter Maintenance	0:10	0:05	0:15
IX	IDB Problem Records Maintenance	0:30	0:30	1:00
	a. Query IDB Problems			
	b. All Targets			
	c. All Location			
	d. IDB Error Summary			
X	Incoming IIR Maintenance	0:20	0:25	0:45
	a. Deferred Alert Reports			
	b.			
XI	Incoming IIR Problem Records	0:30	0:30	1:00
	a. IIR Problem Messages			
	b. IIR Problem Items			
	c. New Target Candidates			
XII	New Target List Review	0:10	0:05	0:15
XIII	IIR Candidate Archive List	0:20	0:20	0:40
	a. Create			
	b. Review			
XIV	Image Coverage Archive List	0:15	0:15	0:30
XV	Maintain Local Help	0:10	0:10	0:20

System Operations Tools

	Topic	Lecture	Lab	Total
I	Basic UNIX review	1:00	1:00	2:00
	a. Terminal			
	b. Man utility			
	c. Error messages			
	d. Working environment			
	e. Directories and subdirectories			
	f. UNIX commands review			
	g. Aliases			
II	Disk and tape volumes	0:30	0:15	0:45
III	UNIX networks	0:30	0:30	1:00
IV	System overview	0:45	0:30	1:15
	a. Client/server overview			
	b. System design			
	c. Drive assignments			
	d. Alias names			
V	Startup information	0:30	1:00	1:30
	a. System			
	b. Comm system			
VI	General system operations	1:00	1:00	2:00
	a. User communication			
	b. Controlling processes			
	1. kill process			
	2. nice			
	c. Checkpoint			
VII	Peripherals	0:30	0:00	0:30
	a. Backups			
	b. Restores			
	c. Equipment failure			
VIII	Monitoring procedures	0:15	0:10	0:25
IX	Database load and updates	0:15	0:25	0:40
	a. Tape load and update overview			
	b. Sybase bulk copy (bcp)			
X	Message processing	0:20	0:30	0:50
XI	System general procedures	1:00	1:00	2:00
	a. System restart/recovery			
	b. Comm recovery			
	c. System shutdown			
	d. Comm shutdown			
	e. System errors and diagnostics			
XII	Command file information	0:10	0:10	0:20

	Topic	Lecture	Lab	Total
XIII	System tuning	0:15	0:20	0:35
XIV	Batch queues	0:15	0:10	0:25
XV	Print queues	0:15	0:30	0:45
	System management information	0:30	0:30	1:00
	a. UNIX component directories			
	b. System management utilities			

Appendix D

IESS v3.1 Training Outline

IESS 3.1 Modifications Overview

- Mixed IDEX/SEM Site Support
- Direct (or Push) LAN Softcopy Dissemination Support from the DE
- Secondary Product Support

External Interfaces Flow Diagram

Function Lessons Conventions and Outline

- Function Lessons Outline
- Flow diagram Conventions
  - List of Function Lessons (Lesson 1, Lesson 2, etc.)

Function Lessons

- Dissemination Management
  - Lesson 1 - Imagery Ordering
    - Dissemination Parameters
    - IDM Review
    - Sort Status Review
    - Quality IMP Request
    - FAF Block Recalculation
  - Lesson 2 - Backup Target Maintenance
    - Backup Target Parameters
    - Backup Target Database Review

- Exploitation Management
  - Lesson 3 - Image List Maintenance

    Image List
  - Lesson 4 - Softcopy Queue & Task Management

    Softcopy Parameters Maintenance

    Softcopy Tasking Queue Maintenance
  - Lesson 5 - Softcopy Work Session

    User Data Maintenance

    Softcopy Tasking Queue Maintenance
  - Lesson 6 - Softcopy Image Maintenance

    Softcopy Problem Images

    SFI Processing
- Imagery Exploitation
  - Lesson 7 - Secondary Product Maintenance

    Review Secondary Product

    Review All Secondary Products

Appendix E

IESS v3.2 Training Outline

The following is the outline for the IESS 3.2 training performed by GTE Government Systems in Thousand Oaks, California on the dates of 12-21 April 1999.

IESS 3.2 Modifications Overview

- CIGSS IOC functionality
  - Expanded Collection Plan processing
  - Autostaging of high priority imagery
  - Enhanced SITA processing in SEM
  - Navigation and Collection Plan updates messages as complete replacements
  - Added tactical ESD processing
- GSD Phase 2
  - Integration of the GSD Data Store and GRAPHREP message support in IESS External Interfaces Flow Diagram

External Interfaces Flow Diagram

Function Lessons Conventions and Outline

- Function Lessons Outline
- Flow Diagram Conventions
  - List of Function Lessons (Lesson 1, Lesson 2, etc.)

Function Lessons

- CIGGS IOC Applications
  - Lesson 1 – CIGGS

    Maintain JSIPS Mission

    Define Target List

    Maintain Softcopy Parameters

Maintain Softcopy Tasking Queue

- Incoming GRAPHREP
  - Lesson 2 – GRAPHREP Messages Handling

    Review Queue List

    Correct IIR Message

    Review Incoming GRAPHREP Messages

    Query GSD DS
- Outgoing GRAPHREP
  - Lesson 3 – GRAPHREP Requirements

    Maintain Planning Priority

    Maintain Team Definition

    Local Query Requirement

    Review Target Specifications

    Request Production Orders
  - Lesson 4 – GRAPHREP Task Selection

    Update Task Determination

    Determine Task

    Maintain Exploitation Tasks
  - Lesson 5 – GRAPHREP Transmission

    Review Outgoing GRAPHREP

    Maintain Secondary Product

    Non-IIR Requirements Satisfaction

    Query Database

Appendix F

IESS v4.0 Training Outline

The following is the outline for the IESS 4.0 training performed by GTE Government Systems in Thousand Oaks, California on the dates of 28 June – 8 July 1999.

IESS 4.0 Modifications Overview

- ESD Processing
  - Addition of Enhanced System A at E300
  - Addition of System B2 at E305
  - New-Processing of System B PID
  - POI change – Multimate Type changes
  - MTDM support deleted
- Softcopy Designator 1
  - Change in definition of the Softcopy Designator field of IDM-PSM
  - IESS softcopy site types will be changed. Push Libraries are still only supported at sites which do not have IDEX, due to limitation in IDM message
  - One-to-one relationship between Library ID and Customer Code
- Dissemination/Imagery Ordering
  - LCM replaced by SDLCM
  - New check for “too big” targets in vertical direction
  - Order as one IMP or break into two IMPs if too big
- Softcopy Tasking
  - SRPs can no longer be included in a WAM to IDEX
- EAC
  - Separate site training will be provided

- Requirements Management Support

External Interfaces Flow Diagram

Function Lessons Conventions and Outline

- Function Lessons Outline
- Flow Diagram Conventions

Function Lessons

- Lesson 1 – Requirements

  Create and Validate Seed Nom

  Media Allocation Parameters

  Team Definition

- Lesson 2 – Maintain Dissemination/Softcopy Parameters

  Dissemination Parameters

  Maintain Library Parameters

  Maintain Softcopy Parameters

- Lesson 3 – Dissemination/Imagery Ordering/POI

  Transmit Dissemination Messages

  PID Display

  RER Review

  FAF Block Recalculation

  Quality IMP Request

  Query Image Purpose Data

- Lesson 4 – Tasks and Exploitation Support

  Exploitation Task Query

  Task Determination

Query Database

Maintain Image List

Maintain Softcopy Tasking Queue

Maintain Secondary Product

– Lesson 5 – Backup Target Data

Backup Target Parameters

Review Backup Targets

Appendix G

IESS 4.1 Training Outline

The following is the outline for the IESS v4.1 Update Training Document that is located on the IESS Intelink Home Page.

- Broad Area Search (BAS) Target Support
  - Support for Broad Area Search (BAS) targets
  - BAS target definition
  - Listing of IESS functions where BAS targets added as another target type
- RMS Dissemination Only Product Code Support
- CIP Interface

Appendix H

IESS v4.2 Training Outline

The following is the outline for the IESS v4.2 Delta Student Familiarization Training which is located on the IESS Home Page.

- **Imagery Ordering Preparation and Receipt Overview**
  - **Every Time Covered**
  - **Team Recalculation**
- **SEM Image Transfer Overview**
  - **Softcopy Work Session**
  - **Notification of Image Arrival**
    - ♦ **User Data Maintenance**
- **Target Research Overview**
  - **Hit File Management**
- **Report Item Creation Overview**
  - **IIR Header**
  - **AUTODIN Address Group Maintenance**
    - ♦ **Maintain Address Group**
  - **Hit File Management**
  - **Data Archive, Restore and Delete**
  - **Database Monitoring Tools**

Appendix I

Enhanced Analyst Client v1.0 Training Outline

The following is the outline for the EAC v1.0 training that will be performed by General Dynamics as part of the overall NIES training.

- Introduction to EAC
  - Document Convention
  - User Interface Conventions
  - Background and Overview
- EAC Demonstration
- External Interface
- EAC Function Lessons
  - Lesson 1 – Configuring Your Site to Run EAC

    Configuring IESS to Run EAC

    EAC Password Maintenance

    Image Status Maintenance
  - Lesson 2 – User Profile Maintenance
  - Lesson 3 – Analyst Client Capabilities
  - Lesson 4 – EAC Query Capability

Appendix J

EAC v2.0 Training Outline

The following is the outline for the Enhanced Analyst Client (EAC) 2.0 training to be performed by General Dynamics Electronic Systems in support of the EAC installations.

a. Introduction to EAC
- **Document Conventions**
- **User Interface Conventions**
- **EAC Demonstration**
- **EAC Terms and Concepts**
- **Heterogeneous Library Support – *Will EAC talk to the DE and/or IPL?***

b. External Interfaces

c. EAC Lessons – Outline and Conventions

Lesson 1 – What You Need to Know (Now) To Get Started

A. Setting Your Password
- **Change Password**

B. Setting Your Preferences – An Example
- **User Profile**

C. Getting Started
- **Function Help**
- **Display Help**
- **Context Help**
- **Local Help**

D. Viewing Status
- **Segment Status**

Lesson 2 – Imagery Access

Getting a List of Available Imagery

Lesson 2a – Analyst Client
- **Softcopy Queues and Softcopy Tasks**
  - ***What are they, and how are they created?***
- **Access Imagery in Pre-defined Softcopy Queues**

Lesson 2b – EAC Query
- **Access Imagery from User-defined Query**
- **IESS Query**
- **Library Query**
- **Templates**
- **IESS Query Vs. Library Query**
  - ***What's the difference?***
- **Building Ad Hoc Softcopy Tasks**
  - ***Do it yourself!***

Lesson 3 – Using the Softcopy Task Review Display

What You Can Do With Your List of Available Imagery

A. How User Preferences Affect the Softcopy Task Review Display
- **User Profile Task List Options**

B. Basic Capabilities of the Softcopy Task Review Display
- **Query States**
  - ***What happens when you select to review a Queue, or create an Ad Hoc Softcopy Task***
- **Button Icons**
- **Image Icons**
- **Find**
- **Softcopy Task Options**
  - **Moving SC Tasks to another SC Queue**
  - **Deleting a Completed SC Task**
  - **Ssaving an Ad Hoc SC Task (From EAC Query only)**
- **Image Line Options – a quick look**
- **Taraget Line Options – a quick look**

Lesson 4 – Staging Primary Imagery

A. How User Preferences Affect Staging
- **User Profile Task List Options**

B. Prior to Staging Image(s)
- **View Image Thumbnails**
- **View Image Details**
- **Preview and Chip from an Image**
- **Prestage an Image**
- **Update Image and/or Task Status *Without* Staging**

C. How to Stage Primary Image(s)
- **Stage a Single Image in a Softcopy Task**
- **Stage all Images in a Softcopy Task**
- **Stage Stereo Pair Images**
- **View Staged Image Details**

D. How to Display Staged Primary Image(s) and Related Targets
- **IEC**
- **Non-IEC**

E. Releasing a Staged Primary Image(s)
- **Release an Image**
- **Release and Stage Command**

F. Deleting Staged Primary Image(s) from a CAWS/File Server

Lesson 5 – Reviewing & Staging Reference Materials

A. How User Preferences Affect Reference Materials Retrieval
- **Reference Materials Options**
- **Reference Image Options**

B. Image Reference Materials Retrieval *(NIMA Library Sites Only)*
- **User Preferences Settings for Image Reference Materials**
  - **Display with Reference Materials**

- Transfer with Primary Image
- Preview and Stage Reference Iamges for a Primary Image
  - View Reference Image Details
- Display a Staged Reference Image on the ELT (IEC and Non-IEC)
- View Staged Image Details

C. Target Reference Materials Retrieval

- User Preferences Settings for Target Reference Materials
  - Display with Reference Materials *(NIMA Library Sites Only)*
  - Transfer with Primary Image *(NIMA Library Sites Only)*
  - Reference Materials Options
- Review All IESS Data for a Target
- Stage IESS HOC Data for a Target
  - View HOC Image Details
  - View HOC Image Thumbnails
- Preview and Stage Reference Iamges for a Target *(NIMA Library Sites Only)*
- View Staged Image Details *(NIMA Library Sites Only)*

Lesson 6 – Storing Reference Images in the Library

- From the Analyst Client Target Line
- From the EAC Main Menu Pulldown
- Steps to create (RemoteView), save (EAC), and retrieve (EAC) a reference image

Lesson 7 – Initiating IESS Functions from EAC

- Set Default User Data in IESS from EAC
- Initiate IESS Item Create Function from EAC

Lesson 8 – User Profile Maintenance

- A General Review
- User Profile Vs. Session Preferences
- Manager Vs. Non-Manager Selections
- Product Profiles

Lesson 9 – Manager Functions

- Image Status
- Changing the SC Task Status
- Maintaining Local Help
- System Statistics

Appendix K

GraphPlot v1.0 Integrated Training Outline

The following is the outline for the GraphPlot training performed by General Dynamics (IESS and DIEPS) at USJFCOM on the dates 6-17 December 1999.

- GraphPlot Overview
  - Initial Capabilities
  - System Components
  - GraphPlot Components
  - Style and User Interface Connections

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- DIEPS GraphPlot
  - Lesson 1 – GSD Tools
  - Lesson 2 – GRAPHREP Panel
  - Lesson 3 – Create GraphPlot Product
  - Lesson 4 – Create Image Plot
  - Lesson 5 – Create Reporting Zone GRAPHREP

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- GSD Query
  - Background and Overview – what does GSD Query do?
  - Execution Patch
  - GSD Query Display - Parameters
  - Lesson 4 – Create Image Plot

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- GraphPlot CONOPS

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- SEM Overview
  - Image Ordering
  - Staging Imagery

Appendix L

IESS v4.3 Training Outline

TBD012

Appendix M

EAC v2.1 Training Outline

TBD

Appendix N

GraphPlot v2.0 Integrated Training Outline

TBD